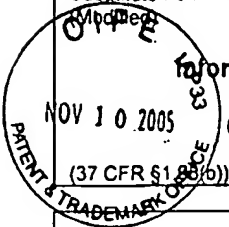


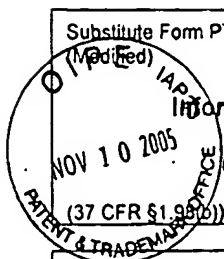
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

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	C14	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/005289 mailed April 29, 2005
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Applicant Joseph A. Zupanick et al.		
	Filing Date November 1, 2001		Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
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<i>L</i>	C21	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (6 pages) mailed March 13, 2003 for International Application No. PC/US02/33128
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Examiner Signature <i>[Signature]</i>	Date Considered <i>11/23/06</i>
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SUBSTITUTE Form PTO-1449 (Modified) APR 07 2005 PATENT & TRADEMARK OFFICE (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		
	Applicant Joseph A. Zupanick et al.		Filing Date November 1, 2001

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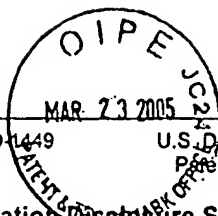
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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EXAMINER: Initials citing considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



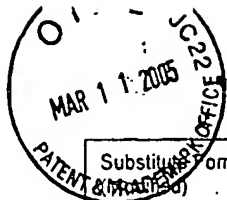
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U.S. Patent Documents							
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	A2						

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Substitute Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
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	Applicant Joseph A. Zupanick et al.		
	Filing Date : November 1, 2001	Group Art Unit 3673	

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	A4						
	A5						

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	B1							
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Substitute Form PTO-1449 (Rev. 10-2003) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR 1.128(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Applicant Joseph A. Zupanick et al.		
	Filing Date November 1, 2001	Group Art Unit 3673	

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3	A3	2004/0140129 A1	07/22/2004	Gardes			
	A4						
	A5						
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	A7						
	A8						

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							Yes	No
2	B1	442,008	01/23/1936	United Kingdom			N/A	
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2	B3	651,468	04/04/1951	United Kingdom			N/A	
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Sheet 1 of 2

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Mail Date Information Disclosure Statement OCT 01 2004 Canceled by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
37 CFR §1.980		Filing Date November 1, 2001	Group Art Unit 3673

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	A6						

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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1							
	B2							
	B3							
	B4							

Other Documents (include Author, Title, Date, and Place of Publication)

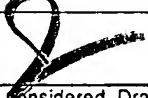
Examiner Initial	Desig. ID	Document
9	C1	Langley, Diane, "Potential Impact of Microholes Is Far From Diminutive," JPT Online, http://www.spe.org/spe/jpt/jps , November 2004 (5 pages)
1	C2	Consol Energy Slides, "Generating Solutions, Fueling Change," Presented at Appalachian E&P Forum, Harris Nesbitt Corp., Boston, October 14, 2004 (29 pages)
1	C3	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages), and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2004/024518 mailed November 10, 2004
1	C4	Schenk, Christopher J., "Geologic Definition and Resource Assessment of Continuous (Unconventional) Gas Accumulations - the U.S. Experience," Website, http://aapg.confex.com/.../ , printed November 16, 2004 (1 page)
2	C5	U.S. Department of Interior, U.S. Geological Survey, "Characteristics of Discrete and Basin-Centered Parts of the Lower Silurian Regional Oil and Gas Accumulation, Appalachian Basin: Preliminary Results From a Data Set of 25 oil and Gas Fields," U.S. Geological Survey Open-File Report 98-216, Website, http://pubs.usgs.gov/of/1998/of98-216/introl.htm , printed November 16, 2004 (2 pages)

Examiner Signature	Date Considered 11/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-159 (Mailed)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
Mail Date Canceled OCT 01 2004 PATENT & TRADEMARK OFFICE		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
7	C6	Zupanick, J., "Coalbed Methane Extraction," 28 th Mineral Law Conference, Lexington, Kentucky, October 16-17, 2003 (48 pages)
2	C7	Zupanick, J., "CDX Gas - Pinnacle Project," Presentation at the 2002 Fall Meeting of North American Coal Bed Methane Forum, Morgantown, West Virginia, October 30, 2002 (23 pages)

Examiner Signature 	Date Considered 1/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Rev. 10-1-00)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
4	A1	3,744,565	07/10/1973	Brown			
2	A2	4,060,130	11/29/1977	Hart			
2	A3	2002/0043404 A1	04/18/2002	Trueman et al.			

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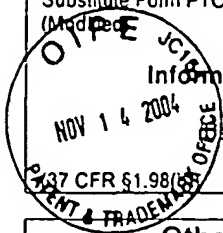
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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7	B1	EP 1 316 673 A2	06/04/2003	EPO			N/A	
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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
9	C1	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (6 pages) re International Application No. PCT/US2004/012029 mailed September 22, 2004
	C2	Brunner, D.J. and Schwoebel, J.J., "Directional Drilling for Methane Drainage and Exploration in Advance of Mining," REI Drilling Directional Underground, World Coal, 1999, 10 pages
	C3	Thakur, P.C., "A History of Coalbed Methane Drainage From United States Coal Mines," 2003 SME Annual Meeting, February 24-26, Cincinnati, Ohio, 4 pages
	C4	U.S. Climate Change Technology Program, "Technology Options for the Near and Long Term," 4.1.5 Advances in Coal Mine Methane Recovery Systems, pp. 162-164
	C5	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (7 pages) re International Application No. PCT/US2004/017048 mailed October 21, 2004
	C6	Gardes, Robert, "Multi-Seam Completion Technology," Natural Gas Quarterly, E&P, June 2004, pp. 78-81
	C7	Baiton, Nicholas, "Maximize Oil Production and Recovery," Vertizontal Brochure, received 10/2/2002, 4 pages
2	C8	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Dated on or about 3/6/2003, pp. 1-11

Examiner Signature 	Date Considered 11/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673



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Examiner Initial	Desig. ID	Document
9	C9	Fong, David K., Wong, Frank Y., and McIntyre, Frank J., "An Unexpected Benefit of Horizontal Wells on Offset Vertical Well Productivity in Vertical Miscible Floods," Canadian SPE/CIM/CANMET Paper No. HWC94-09, paper to be presented March 20-23, 1994, Calgary, Canada, 10 pages
1	C10	Fischer, Perry A., "What's Happening in Production," World Oil, June 2001, p. 27
1	C11	Website of PTTC Network News Volume 7, 1 st Quarter 2001, Table of Contents, http://www.pttc.org/./news/v7n1nn4.htm printed 04/25/2003, 3 pages
1	C12	Cox, Richard J.W., "Testing Horizontal Wells While Drilling Underbalanced," Delft University of Technology, August 1998, 68 pages
1	C13	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
9	C14	The Need for a Viable Multi-Seam Completion Technology for the Powder River Basin, Current Practice and Limitations, Gardes Energy Services, Inc., Believed to be 2003 (8 pages)

Examiner Signature 	Date Considered 11/23/06
EXAMINER: Initials <u>9</u> considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) SEP 18 2004 37 CFR 1.98(b)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
			Filing Date November 1, 2001	Group Art Unit 3673

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<u>1</u>	A1	4,651,836	03/24/1987	Richards			
	A2	4,776,638	10/11/1988	Hahn			
	A3	5,148,877	09/22/1992	MacGregor			
	A4	5,287,926	02/22/1994	Gruppig			
	A5	5,355,967	10/18/1994	Mueller et al.			
	A6	5,775,443	07/07/1998	Lott			
	A7						
<u>a</u>	A8						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1							
	B2							
	B3							
	B4							
	B5							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<u>7</u>	C1	PowerPoint Presentation entitled, "Horizontal Coalbed Methane Wells," by Bob Stayton, Computalog Drilling Services, date is believed to have been in 2002 (39 pages)
<u>c</u>	C2	Denney, Dennis, "Drilling Maximum-Reservoir-Contact Wells in the Shaybah Field," SPE 85307, pages 60, 62-63, October 20, 2003
	C3	
	C4	

Examiner Signature <u>[Signature]</u>	Date Considered <u>1/23/06</u>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) JC10 AUG 25 2001 37 CFR § 1.212 (b) (PATENT & TRADEMARK OFFICE)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)			
	Applicant Joseph A. Zupanick et al.			
	Filing Date November 1, 2001		Group Art Unit 3673	

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
✓	A1	2,797,893	07/02/1957	McCune et al.			
✓	A2	3,582,138	06/01/1971	Loofbourow et al.			
✓	A3	3,587,743	06/28/1971	Howard			
✓	A4	4,151,880	05/01/1979	Vann			
✓	A5	4,222,611	09/16/1980	Larson et al.			
✓	A6	4,415,205	11/15/1983	Rehm et al.			
✓	A7	4,502,733	03/05/1985	Grubb			
✓	A8	4,533,182	08/06/1985	Richards			
✓	A9	4,753,485	06/28/1988	Goodhart			
✓	A10	5,697,445	12/16/1997	Graham			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
✓	B1	WO 94/28280	12/08/1994	WIPO			N/A	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
✓	C1	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (7 pages) re International Application No. PCT/US 03/04771 mailed July 4, 2003
✓	C2	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (5 pages) re International Application No. PCT/US 03/21891 mailed November 13, 2003
✓	C3	Desai, Praful, et al., "Innovative Design Allows Construction of Level 3 or Level 4 Junction Using the Same Platform," SPE/Petroleum Society of CIM/CHOA 78965, Canadian Heavy Oil Association, 2002, pages 1-11
✓	C4	Bybee, Karen, "Advanced Openhole Multilaterals," Horizontal Wells, November 2002, pages 41-42
✓	C5	Bybee, Karen, "A New Generation Multilateral System for the Troll Olje Field," Multilateral/Extended Reach, July 2002, pages 50-51
✓	C6	Emerson, A.B., et al., "Moving Toward Simpler, Highly Functional Multilateral Completions," Technical Note, Journal of Canadian Petroleum Technology, May 2002, Volume 41, No. 5, pages 9-12
✓	C7	Moritis, Guntis, "Complex Well Geometries Boost Orinoco Heavy Oil Producing Rates," XP-000969491, Oil & Gas Journal, February 28, 2000, pages 42-46


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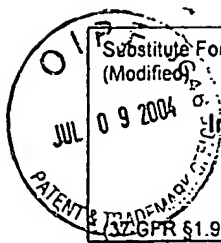
Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Revised)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Examiner Initial	Desig. ID	Other Documents (include Author, Title, Date, and Place of Publication)
A	C8	Themig, Dan, "Multilateral Thinking," New Technology Magazine, December 1999, pages 24-25
I	C9	Smith, R.C., et al., "The Lateral Tie-Back System: The Ability to Drill and Case Multiple Laterals," IADC/SPE 27436, Society of Petroleum Engineers, 1994, pages 55-64, plus Multilateral Services Profile (1 page) and Multilateral Services Specifications (1 page)
I	C10	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/13954 mailed September 1, 2003
I	C11	Logan, Terry L., "Drilling Techniques for Coalbed Methane," Hydrocarbons From Coal, Chapter 12, Cover Page, Copyright Page, pp. 269-285, Copyright 1993
I	C12	Hanes, John, "Outbursts in Leichhardt Colliery: Lessons Learned," International Symposium-Cum-Workshop on Management and Control of High Gas Emissions and Outbursts in Underground Coal Mines," Wollongong, NSW, Australia, March 20-24, 1995, Cover page, pp. 445-449
I	C13	Williams, Ray, et al., "Gas Reservoir Properties for Mine Gas Emission Assessment," Bowen Basin Symposium 2000, pp. 325-333
I	C14	Brown, K., et al., "New South Wales Coal Seam Methane Potential," Petroleum Bulletin 2, Department of Mineral Resources, Discovery 2000, March 1996, pp. i-viii, 1-96
L	C15	Fipke, S., et al., "Economical Multilateral Well Technology for Canadian Heavy Oil," Petroleum Society, Canadian Institute of Mining, Metallurgy & Petroleum, Paper 2002-100, to be presented in Calgary Alberta, June 11-13, 2002, pages 1-11

Examiner Signature 	Date Considered 1/23/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
17601-019001Application No.
10/003,917**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant
Joseph A. Zupanick et al.Filing Date
November 1, 2001Group Art Unit
3673**U.S. Patent Documents**

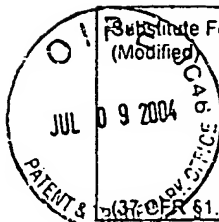
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<i>h</i>	A1	4,020,901	05/03/1977	Pisio et al.			
	A2	4,030,310	06/21/1977	Schirtzinger			
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	A18	6,189,616	02/20/2001	Gano et al.			
	A19	6,244,340	06/12/2001	McGlothen et al.			
	A20	6,279,658	08/28/2001	Donovan et al.			
	A21	2004/0011560 A1	01/22/2004	Rial et al.			

Foreign Patent Documents or Published Foreign Patent Applications

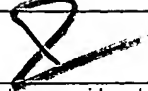
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<i>T</i>	B1	AU 85/49964 A	11/20/1986	Australia			Abstract Only	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Signature 	Date Considered <i>1/23/06</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

	Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-019001	Application No. 10/003,917
	Information Disclosure Statement by Applicant (Use several sheets if necessary)				Applicant Joseph A. Zupanick et al.	
					Filing Date November 1, 2001	
					Group Art Unit 3673	

Examiner Initial	Desig. ID	Document
<i>2</i>	C1	U.S. Department of Energy, "Slant Hole Drilling," March 1999, 1 page

Examiner Signature 	Date Considered 1/28/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
17601-019001Application No.
10/003,917Information Disclosure Statement
by Applicant

(Use several sheets if necessary)

Applicant
Joseph A. Zupanick et al.Filing Date
November 1, 2001Group Art Unit
3673

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(37 CFR §1.98(a))

U.S. Patent Documents

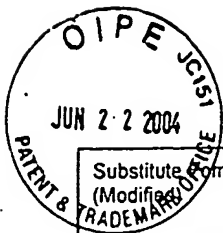
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K	A1	1,488,106	03/25/1924	Fitzpatrick			
	A2	3,385,382	05/28/1968	Canalizo, et al.			
	A3	4,073,351	02/14/1978	Baum			
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	A23	6,595,301	07/22/2003	Diamond et al.			
	A24	6,595,302	07/22/2003	Diamond et al.			
	A25	6,604,580	08/12/2003	Zupanick et al.			
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	A27	6,644,422	11/11/2003	Rial et al.			

Examiner Signature

Date Considered

1/23/06

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

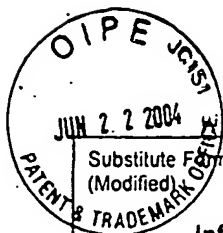


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
2	A28	6,646,441	11/11/2003	Thompson et al.			
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	A30	6,679,322	01/20/2004	Zupanick			
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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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4	B1	CA 2,210,866	01/19/1998	Canada			X	
	B2	CA 2,278,735	01/13/1998	Canada			X	
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	B4	GB 2 255 033 A	10/28/1992	United Kingdom			N/A	
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2	B6	WO 98/35133	08/13/1998	WIPO			N/A	

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Examiner Initial	Desig. ID	Document
2	C1	Stayton, R.J. "Bob", "Horizontal Wells Boost CBM Recovery," Special Report: Horizontal and Directional Drilling, The American Oil and Gas Reporter, August 2002, pp. 71-75
Examiner Signature		Date Considered 1/22/06
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



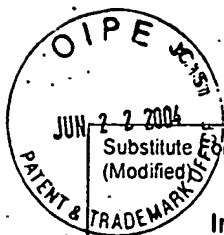
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
A	C2	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/38383 mailed June 2, 2004
	C3	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (6 pages) re International Application No. PCT/US 03/28138 mailed February 9, 2004
	C4	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (6 pages) re International Application No. PCT/US-03/30126 mailed February 27, 2004
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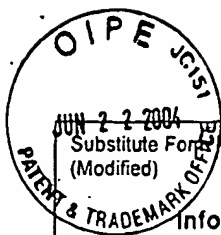


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-019001	Application No. 10/003,917
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick et al.	
		Filing Date November 1, 2001	Group Art Unit 3673

Other Documents (include Author, Title, Date, and Place of Publication)

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